

Michael B Cortie

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213

papers

7,783

citations

41

h-index

82

g-index

229

ext. papers

8,611

ext. citations

5.8

avg, IF

6.39

L-index

#	Paper	IF	Citations
213	Synthesis and optical properties of hybrid and alloy plasmonic nanoparticles. <i>Chemical Reviews</i> , 2011 , 111, 3713-35	68.1	643
212	The forthcoming applications of gold nanoparticles in drug and gene delivery systems. <i>Journal of Controlled Release</i> , 2011 , 149, 65-71	11.7	514
211	Therapeutic possibilities of plasmonically heated gold nanoparticles. <i>Trends in Biotechnology</i> , 2006 , 24, 62-7	15.1	503
210	Zinc oxide particles: Synthesis, properties and applications. <i>Chemical Engineering Journal</i> , 2012 , 185-186, 1-22	14.7	439
209	Mapping surface plasmons at the nanometre scale with an electron beam. <i>Nanotechnology</i> , 2007 , 18, 165505	3.4	240
208	Fabrication of N-doped Graphene-Carbon Nanotube Hybrids from Prussian Blue for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1602014	21.8	235
207	Predicting the formation and stability of single phase high-entropy alloys. <i>Acta Materialia</i> , 2016 , 104, 172-179	8.4	206
206	Functionalised gold nanoparticles for controlling pathogenic bacteria. <i>Trends in Biotechnology</i> , 2010 , 28, 207-13	15.1	169
205	A golden bullet? Selective targeting of <i>Toxoplasma gondii</i> tachyzoites using antibody-functionalized gold nanorods. <i>Nano Letters</i> , 2007 , 7, 3808-12	11.5	143
204	Prussian Blue Nanocubes with an Open Framework Structure Coated with PEDOT as High-Capacity Cathodes for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700587	24	133
203	Optimization of plasmonic heating by gold nanospheres and nanoshells. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 10701-7	3.4	127
202	Adsorption of Amine Compounds on the Au(111) Surface: A Density Functional Study. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13886-13891	3.8	115
201	Targeted destruction of murine macrophage cells with bioconjugated gold nanorods. <i>Journal of Nanoparticle Research</i> , 2007 , 9, 1109-1124	2.3	114
200	Shape Change and Color Gamut in Gold Nanorods, Dumbbells, and Dog Bones. <i>Advanced Functional Materials</i> , 2006 , 16, 2170-2176	15.6	114
199	In vivo study of spherical gold nanoparticles: inflammatory effects and distribution in mice. <i>PLoS ONE</i> , 2013 , 8, e58208	3.7	113
198	Fabrication of Hollow Metal Nanocapsules and Their Red-Shifted Optical Absorption Spectra. <i>Advanced Materials</i> , 2005 , 17, 1276-1281	24	108
197	Formation of gold nanorods by a stochastic "popcorn" mechanism. <i>ACS Nano</i> , 2012 , 6, 1116-25	16.7	107

196	Optical properties and plasmon resonances of titanium nitride nanostructures. <i>Nanotechnology</i> , 2010 , 21, 115201	3.4	105
195	In Situ Precipitation of Gold Nanoparticles onto Glass for Potential Architectural Applications. <i>Chemistry of Materials</i> , 2004 , 16, 2259-2266	9.6	94
194	Ultra-high thermoelectric performance in graphene incorporated Cu ₂ Se: Role of mismatching phonon modes. <i>Nano Energy</i> , 2018 , 53, 993-1002	17.1	93
193	Plasmon absorption in nanospheres: A comparison of sodium, potassium, aluminium, silver and gold. <i>Physica B: Condensed Matter</i> , 2007 , 394, 184-187	2.8	92
192	Segregation and migration of species in the CrCoFeNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 599, 179-182	5.7	90
191	Prospects for gold nanorod particles in diagnostic and therapeutic applications. <i>Biotechnology and Genetic Engineering Reviews</i> , 2008 , 25, 93-112	4.1	83
190	A plasmon-induced current loop in gold semi-shells. <i>Nanotechnology</i> , 2007 , 18, 235704	3.4	79
189	Dipole-dipole plasmon interactions in gold-on-polystyrene composites. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21516-20	3.4	73
188	Electrochemical capacitance of mesoporous gold 2005 , 38, 14-22		66
187	Mie and Bragg plasmons in subwavelength silver semi-shells. <i>Small</i> , 2008 , 4, 2292-9	11	65
186	The weird world of nanoscale gold 2004 , 37, 12-19		65
185	Shape-Selective Formation of Monodisperse Copper Nanospheres and Nanocubes via Disproportionation Reaction Route and Their Optical Properties. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9801-9808	3.8	61
184	Aqueous pathways for the formation of zinc oxide nanoparticles. <i>Dalton Transactions</i> , 2011 , 40, 4871-8	4.3	59
183	Embrittlement and aging at 475 °C in an experimental ferritic stainless steel containing 38 wt.% chromium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 199, 153-163	5.3	59
182	Rapid and Controllable Sintering of Gold Nanoparticle Inks at Room Temperature Using a Chemical Agent. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1325-1328	3.8	58
181	Low energy structures of gold nanoclusters in the size range 3-8 atoms. <i>Computational and Theoretical Chemistry</i> , 2004 , 686, 193-205		57
180	Magnetic metal phosphide nanorods as effective hydrogen-evolution electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 18919-18928	6.7	56
179	Bulk and surface plasmons in highly nanoporous gold films. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 5675-5682	3	55

178	Tunable infrared absorption by metal nanoparticles: The case for gold rods and shells	2008 , 41, 5-14	53
177	Seed-induced growth of flower-like Au-Ni-ZnO metal-semiconductor hybrid nanocrystals for photocatalytic applications.	<i>Small</i> , 2015 , 11, 1460-9	11 50
176	Multimode resonances in silver nanocuboids.	<i>Langmuir</i> , 2012 , 28, 9103-12	4 50
175	Zinc hydroxide sulphate and its transformation to crystalline zinc oxide.	<i>Dalton Transactions</i> , 2013 , 42, 14432-7	4.3 49
174	Zinc hydroxyacetate and its transformation to nanocrystalline zinc oxide.	<i>Inorganic Chemistry</i> , 2013 , 52, 95-102	5.1 49
173	Gold nanosphere-antibody conjugates for hyperthermal therapeutic applications	2007 , 40, 121-129	49
172	Light splitting in nanoporous gold and silver.	<i>ACS Nano</i> , 2012 , 6, 319-26	16.7 41
171	Anisotropic Optical Properties of Semitransparent Coatings of Gold Nanocaps.	<i>Advanced Functional Materials</i> , 2006 , 16, 1457-1461	15.6 40
170	Transformation of zinc hydroxide chloride monohydrate to crystalline zinc oxide.	<i>Dalton Transactions</i> , 2016 , 45, 7385-90	4.3 40
169	Mesoporous gold electrodes for sensors based on electrochemical double layer capacitance.	<i>Sensors and Actuators B: Chemical</i> , 2007 , 123, 262-268	8.5 37
168	Effect of composition and packing configuration on the dichroic optical properties of coinage metal nanorods.	<i>Physical Chemistry Chemical Physics</i> , 2006 , 8, 3520-7	3.6 37
167	Purple glory! The optical properties and technology of AuAl ₂ coatings	2008 , 41, 296-304	35
166	Melting in small gold clusters: a density functional molecular dynamics study.	<i>Journal of Physics Condensed Matter</i> , 2006 , 18, 55-74	1.8 35
165	The effect of surface symmetry on the adsorption energetics of SCH ₃ on gold surfaces studied using Density Functional Theory.	<i>Surface Science</i> , 2005 , 580, 19-29	1.8 35
164	The development of Spangold	1994 , 27, 44-54	34
163	High temperature, low neutron cross-section high-entropy alloys in the Nb-Ti-V-Zr system.	<i>Acta Materialia</i> , 2019 , 166, 435-446	8.4 33
162	Simulation of the precipitation of sigma phase in duplex stainless steels.	<i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1997 , 28, 2477-2484	2.3 32
161	An investigation of the B2 phase between AlRu and AlNi in the AlNiRu ternary system.	<i>Journal of Alloys and Compounds</i> , 1998 , 264, 173-179	5.7 32

160	Spectrally-selective gold nanorod coatings for window glass 2006 , 39, 156-165	32
159	Optical properties of mesoporous gold films. <i>Journal of Optics</i> , 2005 , 7, 303-309	32
158	On the correlation between the C and m in the paris equation for fatigue crack propagation. <i>Engineering Fracture Mechanics</i> , 1988 , 30, 49-58	4.2 32
157	Exploring the performance of molecular rectifiers: limitations and factors affecting molecular rectification. <i>Nano Letters</i> , 2007 , 7, 3018-22	11.5 30
156	Investigation of the optical properties of hollow aluminium nano-caps. <i>Nanotechnology</i> , 2005 , 16, 3023-3028	30
155	Revised phase diagram for the Pt-Ti system from 30 to 60 at.% platinum. <i>Journal of Alloys and Compounds</i> , 2004 , 375, 120-127	5.7 30
154	The effect of temperature and nitrogen content on the partitioning of alloy elements in duplex stainless steels. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1991 , 22, 2173-2179	30
153	Destruction and control of Toxoplasma gondii tachyzoites using gold nanosphere/antibody conjugates. <i>Small</i> , 2009 , 5, 1030-4	11 29
152	In situ organization of gold nanorods on mixed self-assembled-monolayer substrates. <i>Small</i> , 2007 , 3, 139-45	11 29
151	Martensitic transformations, microstructure, and mechanical workability of TiPt. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 1881-1886	2.3 29
150	Nanophotonics-enabled smart windows, buildings and wearables. <i>Nanophotonics</i> , 2016 , 5, 55-73	6.3 29
149	Core-shell nanoparticles with self-regulating plasmonic functionality. <i>Physical Review B</i> , 2007 , 75,	3.3 28
148	THE APPLICATION OF GOLD SURFACES AND PARTICLES IN NANOTECHNOLOGY. <i>Surface Review and Letters</i> , 2006 , 13, 297-307	1.1 28
147	Displacive transformations in Au-18 wt pct Cu-6 wt pct Al. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000 , 31, 1917-1923	2.3 27
146	Structure and ordering of the 18-carat Al-Au-Iu phase. <i>Intermetallics</i> , 2000 , 8, 793-804	3.5 26
145	Multipolar and dark-mode plasmon resonances on drilled silver nano-triangles. <i>Optics Express</i> , 2015 , 23, 18002-13	3.3 25
144	Percolation in nanoporous gold and the principle of universality for two-dimensional to hyperdimensional networks. <i>Physical Review B</i> , 2008 , 78,	3.3 25
143	Body-centred tetragonal martensite formed from Au ₇ Cu ₅ Al ₄ phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 303, 1-10	5.3 25

142	AuAl ₂ and PtAl ₂ as potential plasmonic materials. <i>Journal of Alloys and Compounds</i> , 2013 , 577, 581-586	5.7	24
141	The role of plasmons and interband transitions in the color of AuAl ₂ , AuIn ₂ , and AuGa ₂ . <i>Applied Physics Letters</i> , 2011 , 99, 111908	3.4	24
140	Single and multiple detections of foodborne pathogens by gold nanoparticle assays. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2020 , 12, e1584	9.2	23
139	Higher Order Plasmonic Modes Excited in Ag Triangular Nanoplates by an Electron Beam. <i>Plasmonics</i> , 2016 , 11, 1081-1086	2.4	22
138	Rectification in donor-acceptor molecular junctions. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 374108	2.2	
137	Preparation of nanoscale gold structures by nanolithography	2007, 40, 310-320	22
136	Gold nanoparticles improve metabolic profile of mice fed a high-fat diet. <i>Journal of Nanobiotechnology</i> , 2018 , 16, 11	9.4	21
135	Formation of Zinc Hydroxide Nitrate by H ⁺ -Catalyzed Dissolution-Precipitation. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 1326-1335	2.3	21
134	Plasmonic heating and its possible exploitation in nanolithography. <i>Physica B: Condensed Matter</i> , 2007 , 394, 188-192	2.8	21
133	Hardness and colour trends along the 76 wt.% Au (18.2 carat) line of the AuCuAl system. <i>Scripta Materialia</i> , 2002 , 47, 95-100	5.6	21
132	A 500 °C isothermal section for the Al-Au-Cu system. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 987-993	2.3	20
131	Corrosion processes of triangular silver nanoparticles compared to bulk silver. <i>Journal of Nanoparticle Research</i> , 2016 , 18, 1	2.3	20
130	High temperature transformations of the Au ₇ Cu ₅ Al ₄ shape-memory alloy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3502-3508	5.7	19
129	The aluminium-coppergold ternary system	2009, 42, 201-208	19
128	The preparation of a plasmonically resonant VO ₂ thermochromic pigment. <i>Nanotechnology</i> , 2009 , 20, 085607	3.4	19
127	Precious Metal Core-Shell Spindles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 18135-18142	3.8	19
126	Nanoscale coatings of AuAl _x and PtAl _x and their mesoporous elemental derivatives. <i>Current Applied Physics</i> , 2006 , 6, 440-443	2.6	19
125	Formation and structure of V ₇ Zr amorphous alloy thin films. <i>Acta Materialia</i> , 2015 , 83, 269-275	8.4	18

124	The irrepressible relationship between the paris law parameters. <i>Engineering Fracture Mechanics</i> , 1991 , 40, 681-682	4.2	18
123	High temperature optically stable spectrally-selective Ti _{1-x} Al _x N-based multilayer coating for concentrated solar thermal applications. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 200, 109964	6.4	17
122	Heat transfer from nanoparticles for targeted destruction of infectious organisms. <i>International Journal of Hyperthermia</i> , 2018 , 34, 157-167	3.7	17
121	Effect of precursor stoichiometry on the morphology of nanoporous platinum sponges. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9411-7	9.5	17
120	Spectrally selective coatings of gold nanorods on architectural glass. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 2821-2830	2.3	17
119	Radiative Heat Transfer Across Glass Coated With Gold Nano-Particles. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2005 , 127, 70-75	2.3	17
118	Retardation of intermetallic phase formation in experimental superferritic stainless steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 2436-2444	2.3	17
117	High Temperature Spectrally Selective Solar Absorbers Using Plasmonic AuAl ₂ :AlN Nanoparticle Composites. <i>Solar Rrl</i> , 2017 , 1, 1700092	7.1	16
116	From Lead(II) Dithiocarbamate Precursors to a Fast Response PbS Positive Temperature Coefficient Thermistor. <i>Inorganic Chemistry</i> , 2018 , 57, 2132-2140	5.1	16
115	First principles calculations of the optical and plasmonic response of Au alloys and intermetallic compounds. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 305501	1.8	16
114	Simulation of metal solidification using a cellular automaton. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1993 , 24, 1045-1053		16
113	On the Coalescence of Nanoparticulate Gold Sinter Ink. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11377-11384		15
112	Plasmonic heating of gold nanoparticles and its exploitation	2005,	15
111	Determination of the 76 wt.% Au section of the Al ₃ Au ₂ phase diagram. <i>Journal of Alloys and Compounds</i> , 2003 , 354, 171-180	5.7	15
110	Formation, modulation and adaptive twinning of martensite in the Au ₇ Cu ₅ Al ₄ shape memory system. <i>Intermetallics</i> , 2002 , 10, 23-31	3.5	15
109	Optical properties and electronic structure of the Cu ₃ In brasses. <i>Journal of Alloys and Compounds</i> , 2015 , 647, 129-135	5.7	14
108	Plasmon Hybridization and Field Confinement in Multilayer Metal-Dielectric Nanocups. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15782-15789	3.8	14
107	Second-phase particles in ferritic stainless steels containing 40% chromium. <i>Materials Characterization</i> , 1992 , 28, 139-148	3.9	14

106	Plasmon Resonances in V-Shaped Gold Nanostructures. <i>Plasmonics</i> , 2012 , 7, 235-243	2.4	13
105	Ternary Land Phases in the AlAuCu system at 750 °C. <i>Journal of Alloys and Compounds</i> , 2009 , 488, 100-107	5.7	13
104	The effect of stretching thiyl and ethynyl Au molecular junctions. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 025207	1.8	13
103	Controlled Assembly of 1,4-Phenylenedimethanethiol Molecular Nanostructures. <i>Chemistry of Materials</i> , 2006 , 18, 2376-2380	9.6	13
102	Prediction of increased tunneling current by bond length stretch in molecular break junctions. <i>Chemical Physics Letters</i> , 2006 , 429, 503-506	2.5	13
101	Strategies to control the spectral properties of AuNi thin films. <i>Thin Solid Films</i> , 2014 , 551, 200-204	2.2	12
100	Effect of glass pre-treatment on the nucleation of semi-transparent gold coatings. <i>Materials Chemistry and Physics</i> , 2005 , 94, 266-274	4.4	12
99	Determination of the microstructure and alloy element distribution in experimental duplex stainless steels. <i>Materials Characterization</i> , 1991 , 26, 155-165	3.9	12
98	The Quest for Zero Loss: Unconventional Materials for Plasmonics. <i>Advanced Materials</i> , 2020 , 32, e1904532	12	
97	Plasmon resonance and electric field amplification of crossed gold nanorods. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2009 , 7, 143-152	2.6	11
96	Ab initio and empirical studies on the asymmetry of molecular current-Voltage characteristics. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 215206	1.8	11
95	The decomposition of the beta phase in the copper-tin system. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1991 , 22, 11-18	11	
94	Surface enhanced Raman spectroscopy on metal nitride thin films. <i>Vibrational Spectroscopy</i> , 2016 , 85, 146-148	2.1	11
93	Dielectric function and its predicted effect on localized plasmon resonances of equiatomic AuCu. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 215304	3	10
92	Optical readout of the intracellular environment using nanoparticle transducers. <i>Trends in Biotechnology</i> , 2014 , 32, 571-577	15.1	10
91	Interfacial reactions in white iron/steel composites. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 2349-2357	5.3	10
90	Exploiting zinc oxide re-emission to fabricate periodic arrays. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1774-9	9.5	10
89	Sensors based on monochromatic interrogation of a localised surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 2010 , 148, 34-40	8.5	10

88	Laser-induced assembly of gold nanoparticles into colloidal crystals. <i>Nanotechnology</i> , 2007 , 18, 365301	3.4	10
87	Thermal stresses and cracking in absorptive solar glazing. <i>Construction and Building Materials</i> , 2007 , 21, 464-468	6.7	10
86	Gold 2006 Highlights of 4th International Conference on the Science, Technology and Industrial Applications of Gold 2006 , 39, 226-235		10
85	Mesoporous Gold Sponge. <i>Australian Journal of Chemistry</i> , 2007 , 60, 524	1.2	10
84	Optical properties and oxidation of β -phase Ag-Al thin films. <i>Nanotechnology</i> , 2017 , 28, 095202	3.4	9
83	On the formation of nanocrystalline active zinc oxide from zinc hydroxide carbonate. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	9
82	On the Reactivity of Zinc Hydroxide Acetate Dihydrate in Ethanol. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 5133-5137	2.3	9
81	The versatile colour gamut of coatings of plasmonic metal nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5897-902	3.6	9
80	Mesoporous gold sponge as a prototype metamaterial. <i>Physica B: Condensed Matter</i> , 2007 , 394, 167-170	2.8	9
79	Conduction, storage, and leakage in particle-on-SAM nanocapacitors. <i>IEEE Nanotechnology Magazine</i> , 2005 , 4, 406-414	2.6	9
78	Anomalously strong plasmon resonances in aluminium bronze by modification of the electronic density-of-states. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 405501	1.8	9
77	Thermal Stability of Nanoporous Raney Gold Catalyst. <i>Metals</i> , 2015 , 5, 1197-1211	2.3	8
76	Martensite destabilization in Au ₇ Cu ₅ Al ₄ shape-memory alloy. <i>Acta Materialia</i> , 2011 , 59, 2193-2200	8.4	8
75	Plasmonic top-hat nano-star arrays by electron beam lithography. <i>Microelectronic Engineering</i> , 2015 , 139, 13-18	2.5	7
74	Spectrally Selective Solar Absorbers based on Ta:SiO ₂ Cermets for Next-Generation Concentrated Solar Thermal Applications. <i>Energy Technology</i> , 2020 , 8, 2000125	3.5	7
73	Determination of martensite structures of the Au 7 Cu 5 Al 4 and Au 7 Cu 5.7 Al 3.3 shape-memory alloys. <i>Acta Materialia</i> , 2014 , 79, 234-240	8.4	7
72	Effect of Multimodal Plasmon Resonances on the Optical Properties of Five-Pointed Nanostars. <i>Nanomaterials and Nanotechnology</i> , 2015 , 5, 22	2.9	7
71	A 23 carat alloy with a colourful sparkle 1998 , 31, 75-82		7

70	Nanocapacitive circuit elements. <i>ACS Nano</i> , 2008 , 2, 1615-9	16.7	7
69	Optical properties of suspensions of gold half-shells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 140, 195-198	3.1	7
68	The effect of reciprocal-space sampling and basis set quality on the calculated conductance of a molecular junction. <i>Molecular Simulation</i> , 2007 , 33, 897-904	2	7
67	Intergranular Corrosion in Low Interstitial 40%Cr Ferritic Stainless Steels. <i>Corrosion Engineering Science and Technology</i> , 1990 , 25, 191-196		7
66	Brillouin imaging for studies of micromechanics in biology and biomedicine: from current state-of-the-art to future clinical translation. <i>JPhys Photonics</i> , 2021 , 3, 012002	2.5	7
65	A Computational Exploration of the Color Gamut of Nanoscale Hollow Scalene Ellipsoids of Ag and Au. <i>Plasmonics</i> , 2010 , 5, 37-43	2.4	6
64	Design of nanocapacitors and associated materials challenges. <i>Current Applied Physics</i> , 2004 , 4, 250-254	2.6	6
63	Digital seashells. <i>Computers and Graphics</i> , 1993 , 17, 79-84	1.8	6
62	Effect of Al additions on the optical properties of Au β -phase. <i>Journal of Alloys and Compounds</i> , 2016 , 679, 225-230	5.7	6
61	Conversion of single crystals of a nickel(II) dithiocarbamate complex to nickel sulfide crystals. <i>Inorganica Chimica Acta</i> , 2019 , 487, 228-233	2.7	6
60	Thin films of PtAl ₂ and AuAl ₂ by solid-state reactive synthesis. <i>Thin Solid Films</i> , 2015 , 589, 805-812	2.2	5
59	The effect of vacancies on the optical properties of AuAl. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 505501	1.8	5
58	Fracture mechanics of mollusc shells. <i>Physica B: Condensed Matter</i> , 2006 , 385-386, 545-547	2.8	5
57	Grape juice: an effective liquid additive for significant enhancement of thermoelectric performance of Cu ₂ Se. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16913-16919	13	5
56	Optical in situ study of de-alloying kinetics in nanoporous gold sponges. <i>RSC Advances</i> , 2016 , 6, 85773-85778		5
55	Photomechanical photochromism in a cetyltrimethylammonium isopolytungstate.. <i>RSC Advances</i> , 2018 , 8, 18776-18783	3.7	5
54	X-ray-induced reduction of a surfactant/polyoxotungstate hybrid compound. <i>Surface and Interface Analysis</i> , 2018 , 50, 1384-1388	1.5	4
53	Thermal stability of mesoscopic compounds of cetyltrimethylammonium and Keggin metatungstates. <i>Dalton Transactions</i> , 2017 , 46, 11053-11062	4.3	4

52	A study of high temperature cracking in ferritic stainless steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1992 , 158, 21-30	5.3	4
51	Nanotechnological Applications of Gold 2009 , 369-397		4
50	The importance of surface finish to energy performance. <i>Renewable Energy and Environmental Sustainability</i> , 2017 , 2, 13	2.5	3
49	Spontaneous growth of polarizing refractory metal 'nano-fins'. <i>Nanotechnology</i> , 2018 , 29, 105702	3.4	3
48	Thin Films of AuCuAl Shape Memory Alloy for Use in Plasmonic Nano-actuators. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 33		3
47	Stability of the tetrahedral motif for small gold clusters in the size range 16-4 atoms. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007 , 140, 177-181	3.1	3
46	Quantum electrical characteristics of nanocapacitors		3
45	Design, control, and characterisation of switchable radiative cooling 2018 ,		3
44	Comparison of Single- and Mixed-Sized Gold Nanoparticles on Lateral Flow Assay for Albumin Detection. <i>Biosensors</i> , 2021 , 11,	5.9	3
43	On the thermal decomposition of zinc hydroxide nitrate, Zn ₅ (OH) ₈ (NO ₃) ₂ ?2H ₂ O. <i>Journal of Solid State Chemistry</i> , 2020 , 286, 121311	3.3	3
42	On the Development of Optical Properties during Thermal Coarsening of Gold Nanoparticle Composites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 12098-12105	3.8	3
41	Copper diffusion rates and hopping pathways in superionic Cu ₂ Se. <i>Acta Materialia</i> , 2021 , 215, 117026	8.4	3
40	Optical properties of arrays of five-pointed nanostars 2015 ,		2
39	Nanomedical research in Australia and New Zealand. <i>Nanomedicine</i> , 2013 , 8, 1999-2006	5.6	2
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